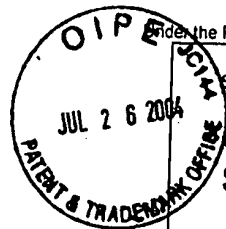


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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 6

Complete if Known

Application Number	10/761,537
Filing Date	01/21/2004
First Named Inventor	David W. Brown
Group Art Unit	2188
Examiner Name	
Attorney Docket Number	P214419

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ²	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ²			
<u>2</u>	1	5,746,602		Kikinis	05-1998	
	2	5,752,880		Gabai et al.	05-19-1998	
	3	5,733,131		Park	03-31-1998	
	4	5,636,994		Tong	06-10-1997	
	5	5,655,945		Jani	8-12-1997	
	6	4,846,693		Baer	07-11-1989	
	7	4,809,335		Rumsey	02-28-1989	
	8	5,846,132		Junkin	12-08-1998	
	9	5,707,289		Watanabe et al.	01-13-1998	
	10	5,800,268		Molnick	09-01-1998	
	11	5,801,946		Nissen et al.	09-01-1998	
	12	4,840,602		Rose	06-20-1989	
	13	4,857,030		Rose	08-15-1989	
	14	5,607,336		Lebensfeld et al.	03-04-1997	
	15	5,596,994		Bro	01-1997	
	16	5,377,258		Bro	12-1994	
	17	4,897,835		Gaskill	01-1990	
	18	4,713,808		Gaskill	12-1987	
	19	5,666,161		Kohiyama et al.	09-09-1997	
<u>✓</u>	20	5,790,178		Shibata et al.	08-04-1998	

FOREIGN PATENT DOCUMENTS

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		Office ³	Number				
<u>2</u>	21		EP0508912 A1	European Patent Office	10-14-1992		
	22		0275826 A1	European Patent Office	07-1998		
	23		0442676 A2	European Patent Office	08-1991		
	24		WO 95/07504	WIPO	03-1995		
	25		0 281 427 B1	Pierce et al.	08-05-1992		
	26		0 583 908 A2	Edgar et al.	02-23-1994		
	27		Japanese 59 228473		06-09-1983		
	28		GB 2 244 896 A	Powell	12-11-1991		
	29		WO 92/11731	WIPO/Bell	07-09-1992		
<u>✓</u>	30		WO 93/08654	WIPO/Stillman et al.	04-29-1993		

Examiner Signature	<u>Zoila Cabrera</u>	Date Considered	<u>2/27/06</u>
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		Application Number	10/761,537
		Filing Date	01/21/2004
		First Named Inventor	David W. Brown
		Group Art Unit	2188
		Examiner Name	
Sheet	2	of	6
		Attorney Docket Number	P214419

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		Number	Kind Code ³			
<i>2</i>	31	5,493,281		Owens	02-20-1996	
<i>1</i>	32	5,453,933		Wright et al.	09-1995	
	33	4,531,182		Hvatt	07-1985	
	34	4,937,737		Schwane et al.	06-1990	
	35	5,095,445		Sekiguchi	03-1992	
	36	5,126,932		Wolfson et al.	06-1992	
	37	5,175,817		Adams et al.	12-1992	
	38	5,245,703		Hubert	09-1993	
	39	5,247,650		Judd et al.	09-1993	
	40	5,390,330		Talati	02-1995	
	41	5,491,813		Bondy et al.	02-1996	
	42	5,604,843		Shaw et al.	02-1997	
	43	5,608,894		Kawakami et al.	03-1997	
	44	5,168,441		Onarheim et al.	12-1992	
	45	5,392,207		Wilson et al.	02-1995	
	46	5,412,757		Endo	05-1995	
	47	5,465,215		Strickland et al.	11-1995	
	48	4,159,417		Rubincam	06-26-1979	
	49	4,767,334		Thorne et al.	08-30-1988	
<i>✓</i>	50	4,855,725		Fernandez	08-08-1989	

FOREIGN PATENT DOCUMENTS								
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Sheet	3	Of	6
		Attorney Docket Number P214419	

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2	51	4,887,966		Gellerman	12-19-1989	/
	52	5,120,065		Driscoll et al.	06-09-1992	
	53	5,402,518		Lowery	03-28-1995	
	54	5,450,079		Dunaway	09-12-1995	
	55	5,670,992		Yasuhara et al.	09-23-1997	
	56	5,737,523		Callaghan et al.	04-07-1998	
	57	5,652,866		Aldred et al.	07-29-1997	
	58	4,418,381		Molusis et al.	11-29-1983	
	59	5,764,155		Kertesz et al.	06-09-1998	
	60	5,617,528		Stechmann et al.	04-01-1997	
	61	5,956,484		Rosenberg et al.	09-21-1999	
	62	6,101,530		Rosenberg et al.	08-08-2000	
	63	6,161,126		Wies et al.	12-12-2000	
	64	6,125,385		Wies et al.	09-26-2000	
	65	6,292,170		Chang et al.	09-18-2001	
	66	6,470,377		Sevcik et al.	10-22-2002	
	67	6,401,005		Schwarz et al.	06-04-2002	
	68	6,292,174		Mallett et al.	09-18-2001	
	69	6,028,593		Rosenberg et al.	02-22-2000	
	70	5,821,920		Rosenberg et al.	10-13-1998	

FOREIGN PATENT DOCUMENTS						
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		Filing Date	01/21/2004
		First Named Inventor	David W. Brown
		Group Art Unit	2188
		Examiner Name	

Sheet	4	Of	6	Attorney Docket Number	P214419
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Z	71	6,147,647		Tassoudji et al.	11-14-2000	
	72	6,366,272		Rosenberg et al.	04-02-2002	
	73	6,353,850		Wies et al.	03-05-2002	
	74	6,061,004		Rosenberg	05-09-2000	
	75	6,046,727		Rosenberg et al.	04-04-2000	
	76	6,219,032		Rosenberg et al.	04-17-2001	
	77	6,078,308		Rosenberg et al.	06-20-2000	
	78	6,317,116		Rosenberg et al.	11-13-2001	
	79	6,246,390		Rosenberg	06-12-2001	
	80	6,100,874		Schena et al.	08-08-2000	
	81	6,166,723		Schena et al.	12-26-2000	
	82	6,128,006		Rosenberg et al.	10-03-2000	
	83	6,243,078		Rosenberg	06-05-2001	
	84	6,191,774		Schena et al.	02-20-2001	
	85	6,131,097		Peurach et al.	10-10-2000	
	86	6,374,255		Peurach et al.	04-16-2002	
	87	6,285,351		Chang et al.	09-04-2001	
	88	6,300,936		Braun et al.	10-09-2001	
	89	6,304,091		Shahojian et al.	10-16-2001	
	90	6,288,705		Rosenberg et al.	09-11-2001	

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Examiner Signature	<div style="font-family: cursive; font-size: 1.2em;">ZOILA CARRERA</div>	Date Considered	<div style="font-family: cursive; font-size: 1.2em;">2/27/06</div>
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First Named Inventor	David W. Brown
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E	111	6,020,876		Rosenberg et al.	02-01-2000	
	112	6,310,605		Rosenberg	10-30-2001	
	113	5,959,613		Rosenberg et al.	11-28-1999	
	114	5,889,670		Schuler et al.	03-30-1999	
	115	5,825,308		Rosenberg	10-20-1998	
	116	6,252,579		Rosenberg et al.	06-26-2001	
	117	6,366,273		Rosenberg et al.	04-02-2002	
	118	6,292,712		Bullen	09-18-2001	
	119	6,292,714		Okabayashi	09-18-2001	
	120	6,480,896		Brown et al.	11-12-2002	
	121	5,848,415		Guck	12-08-1998	
	122	6,173,316		De Boor et al.	01-09-2001	
	123	6,038,603		Joseph	03-14-2000	
	124	4,769,771		Lippmann et al.	09-1988	
	125	5,724,074		Chainani et al.	03-1998	
126	6,497,606		Fong et al.	12-2002		
✓	127	6,290,565		Galyean III et al.	09-2001	

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	114	5,889,670		Schuler et al.	03-30-1999	
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	122	6,173,316		De Boor et al.	01-09-2001	
	123	6,038,603		Joseph	03-14-2000	
	124	4,769,771		Lippmann et al.	09-1988	
	125	5,724,074		Chainani et al.	03-1998	
	126	6,497,606		Fong et al.	12-2002	
	127	6,290,565		Galyean III et al.	09-2001	

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Signature**

ZOILA CABRERA

Date _____

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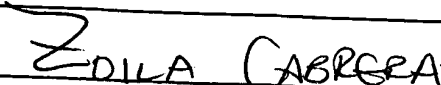
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Sheet 1	of 7	Attorney Docket Number	P214419

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	1	WOSA Backgrounder: Delivering Enterprise Services to the Windows-based Desktop, July 1993, Microsoft Development Library; pp. 1-19	
	2	WOSA INSIDE WINDOWS 95; pp. 348-351	
	3	Software Products for Industrial Automation, ICONICS, Inc.; 1993; 6 pages	
	4	WEB 3.0 Product Brochure, Trihedral Engineering Ltd. (1994); 6 pages	
	5	The Complete, Computer-Based Automation Tool (IGSS) Seven Technologies A/S; 6 pages	
	6	OREGON MICRO SYSTEMS, INC.; Precision Motion Controls Product Guide: pp. 1-20	
	7	AIMAX-WIN Product Brochure, TA Engineering Co., Inc.; 1993; 8 pages	
	8	XANALOG Model NL-SIM Product Brochure, XANALOG, 1994; 4 pages	
	9	ExperTune PID Tuning Software, Gerry Engineering Software; 1993; 6 pages	
	10	PMAC Product Catalog, 1992; page 43	
	11	Paragon TNT Product Brochure, Intec Controls Corp.; 6 pages	

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	17	SUE CHEN JONATHON LIN; <u>Computer Numerical Control: Essentials in Programming and Networking</u> ; Part V, Chapter 27; 1994; pp. 824-848; Delmar Publishers, Inc.; U.S.	
	18	PRITSCHOW et al.; "Open System Controllers: Challenge for the Future of the Machine Tool Industry"; pub. 1/15/93; pp. 449-452	
	19	WILLIAM E. FORD; "What Is an Open Architecture Robot Controller" pub. 8/16/94; pp. 27-32	
	20	CHU AND WANG; "Development of a Practical SFC System for CNC Machine Shop"; pub. 1994; pp. 362-367	
	21	MICROSOFT; "The Microsoft Object Technology Strategy"; pub. March 1994; pp. 1-33	
	22	MICROSOFT; "Open Systems: Technology, Leadership, and Collaboration"; pub. March 1994; pp. 1-15	
	23	MICROSOFT; Microsoft OLE Today and Tomorrow: Technology Overview"; pub. December 1993; pp. 1-9	
	24	MICROSOFT; "Object Linking and Embedding 2.0 Background"; pub. September 1993; pp. 1-15	
	25	ROBERT ANDERSON; "SMART: A Modular Architecture for Robotics and Teleoperation"; pub. 1993; pp. 416-421	
	26	PROCTOR et al.; "Validation of Standard Interfaces for Machine Control"; pub. 1996; pp. 659-664	
	27	ALTINTAS et al.; "Design and Analysis of a Modular CNC System"; pub. 3/4/90; pp. 305-316	

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		Application Number	10/761,537
		Filing Date	01/21/2004
		First Named Inventor	David W. Brown
		Group Art Unit	2188
		Examiner Name	
Sheet	4	of	7
		Attorney Docket Number	P214419

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	†
Z	28	WRIGHT et al.; "Open Architecture Manufacturing: The Impact of Open-System Computers on Self-sustaining Machinery and the Machine Tool Industry"; pp. 41-47	
I	29	FEDROWITZ; "IRL-Based Expansion of the Commonly Used High-Level Language C for Robot Programming;" pub. Oct. 1995; 5 pages	
	30	MCGRAW et al.; "A Friendly Command, Control, and Information System for Astronomy"; pub. 1996; pp. 356-367	
	31	JACKMAN; "Robotic Control Using Sequential Function Charts"; pub. 1996; pp. 120-128	
	32	SPERLING et al.; "Enabling Open Control Systems: An Introduction to the OSACA System Platform"; pub. May 1996; pp. 1-8	
	33	OMAC Requirements Document; "Requirements of Open Modular Architecture Controllers for Applications in the Automotive Industry"; pub. 12/13/94; pp. 1-13	
	34	GM Powertrain Group Manufacturing Engineering Controls Council; "Open, Modular Architecture Controls at GM Powertrain"; pub. May 14, 1996; pp. 1-33	
	35	TEAM ICLP API WORKING GROUP; "Technologies Enabling Agile Manufacturing (TEAM) Intelligent Closed Loop Processing"; pub. January 11, 1996; 30 pages	
	36	BRADLEY BARGEN and PETER DONNELLY; <u>Inside Direct X – In Depth Techniques for Developing High-Performance Multimedia Applications</u> ; 1988; Chps. 1, 18-20, 22-27; Microsoft Press; U.S.	
	37	PETER KOVACH; <u>Inside Direct3D – The Definitive Guide for Real-Time 3D Power and Performance for Microsoft Windows</u> ; 2000; Chps. 1, 7, 15; Microsoft Press; U.S.	
V	38	M. FARSI and M. BARBOSA; <u>CANopen Implementation - Applications to Industrial Networks</u> ; 2000; Chps. 1, 2 and 3; Research Studies Press Ltd.; England and U.S.	

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		Attorney Docket Number	P214419
Sheet	5	of	7

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	39	WOLFHARD LAWRENZ; <u>CAN System Engineering – From Theory to Practical Applications</u> ; 1997; Chps. 1, 2.1, 2.2, 3.2 and 4.1; Springer-Verlag New York, Inc.; U.S.	
	40	ALLEN-BRADLEY; "CNCnet Software Library"; October, 1992; Publication 8000-6.1.1; U.S.	
	41	ROBERT BOSCH GmbH; "CAN Specification"; September, 1991; Version 2.0.	
	42	SISCO, INC.; "Overview and Introduction to the Manufacturing Message Specification (MMS)"; 1994-1995; Revision 2; Systems Integration Specialists Company, Inc.; Sterling Heights, Michigan, U.S.	
	43	ISO-9506-1 "Industrial Automation Systems—Manufacturing Message Specification—Part 1: Service definition"; August, 2000; pp. i-22; ISO/IEC; Switzerland.	
	44	ISO-9506-2 "Industrial Automation Systems—Manufacturing Message Specification—Part 2: Protocol specification"; August 2000; pp. i-6; ISO/IEC; Switzerland.	
	45	SISCO, INC.; "MMS-EASE"; January 1996; Systems Integration Specialists Company, Inc.; Sterling Heights, Michigan, U.S.	
	46	ANSI/EIA-484-A "Electrical and Mechanical Interface Characteristics and Line Control Protocol Using Communication Control Characters for Serial Data Link Between a Direct Numerical Control System and Numerical Control Equipment Employing Asynchronous Full Duplex	
	47	ISO/IEC 7498-1 "Information Technology—Open Systems Interconnection-Basic Reference Model: The Basic Model"; November 1994; U.S.	
	48	ISO/IEC 7498-3 "Information Technology—Open Systems Interconnection-Basic Reference Model: Naming and Addressing"; April 1997; U.S.	
	49	TODD J. SCHUETT; "The Benefits and Data Bottlenecks of High Speed Milling"; August, 1995; conference paper presented at Southeastern Michigan Chapter American Mold Builders Association; Creative Technology Corporation; U.S.	

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









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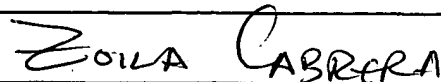
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			Examiner Name		
Sheet	6	of	7	Attorney Docket Number	P214419

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	50	TODD J. SCHUETT; "The Ultimate DNC; Direct CNC Networking (DCN)"; <u>Modern Machine Shop</u> ; January, 1996; Creative Technology Corporation; U.S.	
	51	TODD J. SCHUETT; "Advanced Controls for High Speed Milling"; conference paper presented at the SME "High Speed Machining" conference; May 7-8, 1996; Creative Technology Corporation; U.S.	
	52	LEITAO, MACHADO & LOPES; "A Manufacturing Cell Integration Solution"; paper developed at CCP as a part of the ESPRIT 5629 Project; October, 1995.	
	53	MITSUBISHI ELECTRIC; <u>Mitsubishi Electric Advance: Programmable Logic Controllers Edition</u> ; September, 1996; Vol. 76; Mitsubishi Electric Corporation; Tokyo.	
	54	FARSI, M.; "Flexible and Reliable Robotics Cells in Factory Automation"; 1993; pp. 520-525.	
	55	CHU & WANG; "Development of a Practical SFC System for CNC Machine Shop"; <u>International Conference on Data and Knowledge Systems for Manufacturing and Engineering</u> ; May 1994; pp. 362-367, Vol. 1; pp. xx+745, Vol. 2.; Chinese Univ.; Hong Kong.	
	56	FARSI, M.; "Device Communication for Flexible Manufacturing:-A New Concept"; 1994; pp. 328-334.	
	57	FARSI, M.; "A Production Cell Communication Model in Factory Automation Using the Controller Area Network"; 1995; pp. 90-95.	
	58	FARSI, M. "CANopen: The Open Communications Solution"; 1996; pp. 112-116.	
	59	KATAYAMA et al.; "A Motion Control System with Event-driven Motion-module Switching Mechanism for Robotic Manipulators"; <u>IEEE International Workshop on Robot and Human Communication</u> ; July, 1993; pp. 320-325; U.S.	
	60	MATSUI et al.; "An Event-Driven Architecture for Controlling Behaviors of the Office Conversant Mobile Robot, <i>Jijo-2</i> "; <u>Proceedings of the 1997 IEEE International Conference on Robotics and Automation</u> ; April 1997; pp. 3367-3372; U.S.	

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Sheet	7	of	7	Attorney Docket Number	P214419

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	61	MICROSOFT CORPORATION; "How to Write and Use ActiveX Controls for Microsoft Windows CE 3.0"; <u>Windows CE 3.0 Technical Articles</u> ; June, 2000; pp. 1-5.	
	62	MICROSOFT CORPORATION; "Notes on Implementing an OLE Control Container"; <u>ActiveX Controls Technical Articles</u> ; September 21, 1994; pp. 1-47.	
	63	MICROSOFT CORPORATION; "What OLE Is Really About"; <u>OLE (General) Technical Articles</u> ; July, 1996; pp. 1-33.	
	64	MICROSOFT CORPORATION; "Categorizing by Component Capabilities"; <u>Platform SDK: COM</u> ; November, 2001; pp. 1-23.	
	65	U.S. Publication No. 2002/0165627 to Brown et al.	
	66	U.S. Publication No. 2002/0052939 to Lee	
	67	U.S. Publication No. 2001/0020944 to Brown et al.	
	68	U.S. Publication No. 2001/0032268 to Brown et al.	
	69	US Pub. No. 2002/0177453 to Chen et al.	

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Application Number	10/761,537
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Filing Date	01/21/2004
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First Named Inventor	David W. Brown
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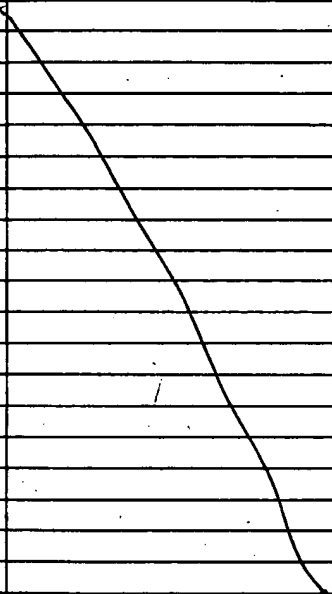
Group Art Unit	2188
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Sheet	1	of	1
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		6,012,961		Sharpe et al.	01-2001	
		6,309,275		Fong et al.	10-2001	
		4,923,428		Curran, Kenneth J.	05-1990	
		6,083,104		Choi, Kei Fung	07-2000	
		5,390,304		Leach et al.	02-1995	
		4,987,537		Kawata, Kazuhide	01-1991	
		6,678,713		Mason et al.	01-2004	
		6,442,451		Lapham, John R.	08-2002	
		6,301,634		Gomi et al.	10-2001	
		6,031,973		Gomi et al.	02-2000	
		5,805,785		Dias et al.	09-1998	
		5,754,855		Miller et al.	05-1998	
		5,625,821		Record et al.	04-1997	
		4,800,521		Carter et al.	01-1989	
		6,400,996		Hoffberg et al.	06-2002	
		6,652,378		Cannon et al.	11-2003	
		6,519,594		Li	02-2003	
		6,295,530		Ritchie et al.	09-2001	
	6,288,716		Humpleman	09-2002		
	6,571,141		Brown	05-2003		

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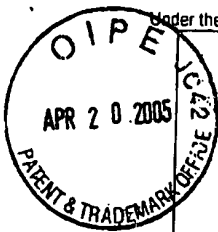
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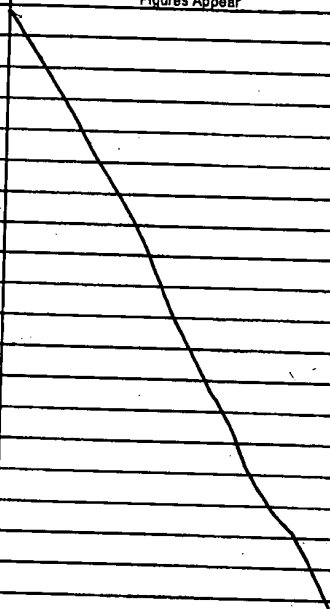

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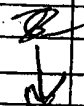
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Sheet 1 of 1

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		Number	Kind Code ²			
		4,815,011		Mizuno et al.	03-1989	
		4,688,195		Thompson et al.	08-1987	
		4,782,444		Munshi et al.	11-1988	
		4,912,650		Tanaka et al.	03-1990	
		5,020,021		Kaji et al.	05-1991	
		5,175,684		Chong, Leighton K.	12-1992	
		5,175,856		Van Dyke et al.	12-1992	
		5,541,838		Koyama et al.	05-2000	
		6,070,010		Keenleyside et al.	05-2000	
		6,090,156		MacLeod, Andrew W.	07-2000	
		6,233,545		Datig, William E.	05-2001	
		6,317,871		Andrews et al.	11-2001	
		6,425,118		Molloy et al.	07-2002	
		6,463,404		Appleby, Stephen C	10-2002	
		4,199,814		Rapp et al.	04-1980	
		5,005,135		Morser et al.	04-1991	
			5,511,147		Abdel-Malek, Karim	

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		Office ³	Number	Kind Code ⁵ (if known)				
			JP 8161335A		Fukumochi, Youji	06-1996		
			JP2000020114A		OBA et al.	01-2000		
			EP 821522 A2		SATO et al.	01-1998		

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ZOLA CARRERA

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		U.S. Pub. No 2001/0029443 A1 to Miyahira	
		U.S. Pub. No. 2001/0037492 A1 to Holzmänn	
		U.S. Pub. No. 2002/0165708 A1 to Kumhyr	
		MICROSOFT CORPORATION; "Dynamic Data Exchange"; <u>Windows 3.1 SDK Guide to Programming</u> ; 1992, 1993; Chapter 22; 21 pages.	
		MICROSOFT CORPORATION; "Dynamic Data Exchange Management Library"; <u>Win32 SDK: Prog. Ref. Vol. 2</u> ; 1992, 1993; Chapter 77; 26 pages.	
		MICROSOFT CORPORATION; "Network Dynamic Data Exchange"; <u>Windows for Workgroups 3.1 Resource Kit</u> ; 1992, 1993; Chapter 11; 19 pages.	

Examiner Signature	ZOLA CABRERA	Date Considered	2/28/06
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		Application Number	10/761,537
		Filing Date	1/21/2004
		First Named Inventor	David W. Brown
		Group Art Unit	2188
		Examiner Name	
Sheet 1 of 1		Attorney Docket Number	P214419

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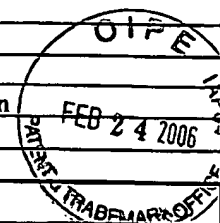
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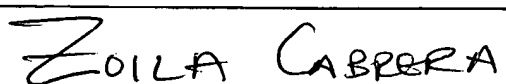
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Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
	1	STEWART, SCHMITZ, KHOSLA, "Implementing Real-Time Robotic Systems Using CHIMERA II", IEEE, 1990, PP.254-255, Sections 3.1 & 3.2	
	2	PAYTON et al., "Intelligent Real-Time Control of Robotic Vehicles", <u>Communications of the ACM</u> , 8/1/1991, Vol. 34, No. B, pp. 49-63	
	3	BLASVAER et al., "An Autonomous Mobile Robot System", 6/8/1994, Chapters 4, 6.7, Denmark	
	4	PAIDY & REEVE, "Software Architecture for a Cell Controller", <u>IEEE</u> , 1991, pp. 344-345	

Examiner Signature		Date Considered	2/29/06
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